

## Pipeline Failure Investigation Report

Pipeline System: \_\_\_\_\_ Operator: \_\_\_\_\_  
Location: \_\_\_\_\_ Date of Occurrence: \_\_\_\_\_  
Medium Released: \_\_\_\_\_ Quantity: \_\_\_\_\_

OPS Arrival Time & Date: \_\_\_\_\_ Total Damages \$ \_\_\_\_\_

Investigation Responsibility: ☐ State ☐ OPS ☐ NTSB Other \_\_\_\_\_

Company Reported Apparent Cause: ☐ Corrosion ☐ Excavation  
☐ Natural Forces ☐ Incorrect Operation ☐ Other Outside Force Damage  
☐ Material and/or Welds ☐ Equipment and Operations ☐ Other \_\_\_\_\_

Rupture ☐ Yes ☐ No  
Leak ☐ Yes ☐ No  
Fire ☐ Yes ☐ No  
Explosion ☐ Yes ☐ No  
Evacuation ☐ Yes ☐ No Number of Persons \_\_\_\_\_ Area \_\_\_\_\_

### Narrative Summary

Short summary of the Incident/Accident which will give interested persons sufficient information to make them aware of the basic scenario and facts.

Region/State \_\_\_\_\_ Reviewed by: \_\_\_\_\_  
Principal Investigator: \_\_\_\_\_ Title: \_\_\_\_\_  
Date: \_\_\_\_\_ Date: \_\_\_\_\_

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<b>Failure Location &amp; Response</b>						
Location (City, Township, Range, County/Parish):		(Acquire Map)				
Address or M.P. on Pipeline: <sup>(1)</sup>	Type of Area (Rural, City): <sup>(1)</sup>					
Date:	Time of Failure:					
Time Detected:	Time Located:					
How Located:						
NRC Report #: (Attach Report)	Time Reported to NRC:	Reported by:				
<b>Type of Pipeline:</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%; vertical-align: top;"> <b>Gas Distribution</b>  <input type="checkbox"/> LP  <input type="checkbox"/> Municipal  <input type="checkbox"/> Public Utility  <input type="checkbox"/> Master Meter </td> <td style="width: 25%; vertical-align: top;"> <b>Gas Transmission</b>  <input type="checkbox"/> Interstate Gas  <input type="checkbox"/> Intrastate Gas  <input type="checkbox"/> Jurisdictional Gas Gathering  <input type="checkbox"/> Offshore Gas  <input type="checkbox"/> Offshore Gas - High H<sub>2</sub>S </td> <td style="width: 25%; vertical-align: top;"> <b>Hazardous Liquid</b>  <input type="checkbox"/> Interstate Liquid  <input type="checkbox"/> Intrastate Liquid  <input type="checkbox"/> Offshore Liquid  <input type="checkbox"/> Jurisdictional Liquid Gathering  <input type="checkbox"/> CO<sub>2</sub> </td> <td style="width: 25%; vertical-align: top;"> <b>LNG</b>  <input type="checkbox"/> LNG Facility </td> </tr> </table>			<b>Gas Distribution</b> <input type="checkbox"/> LP <input type="checkbox"/> Municipal <input type="checkbox"/> Public Utility <input type="checkbox"/> Master Meter	<b>Gas Transmission</b> <input type="checkbox"/> Interstate Gas <input type="checkbox"/> Intrastate Gas <input type="checkbox"/> Jurisdictional Gas Gathering <input type="checkbox"/> Offshore Gas <input type="checkbox"/> Offshore Gas - High H <sub>2</sub> S	<b>Hazardous Liquid</b> <input type="checkbox"/> Interstate Liquid <input type="checkbox"/> Intrastate Liquid <input type="checkbox"/> Offshore Liquid <input type="checkbox"/> Jurisdictional Liquid Gathering <input type="checkbox"/> CO <sub>2</sub>	<b>LNG</b> <input type="checkbox"/> LNG Facility
<b>Gas Distribution</b> <input type="checkbox"/> LP <input type="checkbox"/> Municipal <input type="checkbox"/> Public Utility <input type="checkbox"/> Master Meter	<b>Gas Transmission</b> <input type="checkbox"/> Interstate Gas <input type="checkbox"/> Intrastate Gas <input type="checkbox"/> Jurisdictional Gas Gathering <input type="checkbox"/> Offshore Gas <input type="checkbox"/> Offshore Gas - High H <sub>2</sub> S	<b>Hazardous Liquid</b> <input type="checkbox"/> Interstate Liquid <input type="checkbox"/> Intrastate Liquid <input type="checkbox"/> Offshore Liquid <input type="checkbox"/> Jurisdictional Liquid Gathering <input type="checkbox"/> CO <sub>2</sub>	<b>LNG</b> <input type="checkbox"/> LNG Facility			
Pipeline Configuration (Regulator Station, Pump Station, Pipeline, etc.):						

<b>Operator/Owner Information</b>	
Owner: Address:  Company Official: Phone No.:                      Fax No.:	Operator: Address:  Company Official: Phone No.                      Fax No.
<u>Drug and Alcohol Testing Program Contacts</u> <span style="float: right;"><input type="checkbox"/> N/A</span>	
Drug Program Contact & Phone: Alcohol Program Contact & Phone:	

<b>Damages</b>	
Product/Gas Loss or Spill <sup>(2)</sup> Amount Recovered Estimated Amount \$	Estimated Property Damage \$ Associated Damages <sup>(3)</sup> \$

- 1 Photo documentation  
2 Initial volume lost or spilled  
3 Including cleanup cost

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<i><b>Damages</b></i>			
Description of Property Damage:			
Customers out of Service:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Number: _____
Suppliers out of Service:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Number: _____

<i><b>Fatalities and Injuries</b></i>					
Fatalities:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Company: _____	Contractor: _____	Public: _____
Injuries - Hospitalization:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Company: _____	Contractor: _____	Public: _____
Injuries - Non-Hospitalization:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Company: _____	Contractor: _____	Public: _____
Total Injuries (including Non-Hospitalization):			Company: _____	Contractor: _____	Public: _____

Name	Job Function	Yrs w/ Comp.	Yrs. Exp.	Type of Injury

<i><b>Drug/Alcohol Testing</b></i>					<input type="checkbox"/> N/A
Were all employees that could have contributed to the incident, post-accident tested within the 2 hour time frame for alcohol or the 32 hour time frame for all other drugs?					
<input type="checkbox"/> Yes <input type="checkbox"/> No					

Job Function	Test Date & Time	Location	Results		Type of Drug
			Pos	Neg	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	

## Pipeline Failure Investigation Report

<i>System Description</i>	
Describe the Operator's System:	
<i>Pipe Failure Description</i> <span style="float: right;"><input type="checkbox"/> N/A</span>	
Length of Failure (inches, feet, miles): <span style="float: right;">(1)</span>	
Position (Top, Bottom, include position on pipe, 6 O'clock): <sup>(1)</sup>	Description of Failure (Corrosion Gouge, Seam Split): <sup>(1)</sup>
Laboratory Analysis: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Performed by:	
Preservation of Failed Section or Component: <input type="checkbox"/> Yes <input type="checkbox"/> No	
If Yes - Method:	
In Custody of:	
Develop a sketch of the area including distances from roads, houses, stress inducing factors, pipe configurations, etc. Bar Hole Test Survey Plot should be outlined with concentrations at test points. Direction of Flow.	
<i>Component Failure Description</i> <span style="float: right;"><input type="checkbox"/> N/A</span>	
Component Failed:	(1)
Manufacturer:	Model:
Pressure Rating:	Size:
Other (Breakout Tank, Underground Storage):	
<i>Pipe Data</i> <span style="float: right;"><input type="checkbox"/> N/A</span>	
Material:	Wall Thickness/SDR:
Diameter (O.D.):	Installation Date:
SMYS:	Manufacturer:
Longitudinal Seam:	Type of Coating:
Pipe Specifications (API 5L, ASTM A53, etc.):	
<i>Joining</i> <span style="float: right;"><input type="checkbox"/> N/A</span>	
Type:	Procedure:
NDT Method:	Inspected: <input type="checkbox"/> Yes <input type="checkbox"/> No

## Pipeline Failure Investigation Report

<i>Pressure @ Time of Failure @ Failure Site</i> <span style="float: right;"><input type="checkbox"/> N/A</span>				
Pressure @ Failure Site:			Elevation @ Failure Site:	
Pressure Readings @ Various Locations:			Direction from Failure Site	
Location/M.P./Station #	Pressure (psig)	Elevation (ft msl)	Upstream	Downstream

<i>Upstream Pump Station Data</i> <span style="float: right;"><input type="checkbox"/> N/A</span>	
Type of Product:	API Gravity:
Specific Gravity:	Flow Rate:
Pressure @ Time of Failure <sup>(4)</sup>	Distance to Failure Site:
High Pressure Set Point:	Low Pressure Set Point:

<i>Upstream Compressor Station Data</i> <span style="float: right;"><input type="checkbox"/> N/A</span>	
Specific Gravity:	Flow Rate:
Pressure @ Time of Failure <sup>(4)</sup>	Distance to Failure Site:
High Pressure Set Point:	Low Pressure Set Point:

<i>Operating Pressure</i> <span style="float: right;"><input type="checkbox"/> N/A</span>	
Max. Allowable Operating Pressure:	Determination of MAOP:
Actual Operating Pressure:	
Method of Over Pressure Protection:	
Relief Valve Set Point:	Capacity Adequate? <input type="checkbox"/> Yes <input type="checkbox"/> No

<i>Integrity Test After Failure</i> <span style="float: right;"><input type="checkbox"/> N/A</span>	
Pressure Test Conducted in place? (Conducted on Failed Components or Associated Piping): <input type="checkbox"/> Yes <input type="checkbox"/> No	
If NO, Tested after removal? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Method:	
Describe any failures during the test.	

<i>Soil/water Conditions @ Failure Site</i> <span style="float: right;"><input type="checkbox"/> N/A</span>	
Condition of and Type of Soil around Failure Site (Color, Wet, Dry, Frost Depth):	
Type of Backfill (Size and Description):	

4 Obtain event logs and pressure recording charts

## Pipeline Failure Investigation Report

<i>Soil/water Conditions @ Failure Site</i>		<input type="checkbox"/> N/A
Type of Water (Salt, Brackish):	Water Analysis <sup>(5)</sup> <input type="checkbox"/> Yes <input type="checkbox"/> No	

<i>External Pipe or Component Examination</i>		<input type="checkbox"/> N/A
External Corrosion? <input type="checkbox"/> Yes <input type="checkbox"/> No <sup>(1)</sup>	Coating Condition (Disbonded, Non-existent): <sup>(1)</sup>	
Description of Corrosion:		
Description of Failure Surface (Gouges, Arc Burns, Wrinkle Bends, Cracks, Stress Cracks, Chevrons, Fracture Mode, Point of Origin):		
Above Ground: <input type="checkbox"/> Yes <input type="checkbox"/> No <sup>(1)</sup>	Buried: <input type="checkbox"/> Yes <input type="checkbox"/> No <sup>(1)</sup>	
Stress Inducing Factors: <sup>(1)</sup>	Depth of Cover: <sup>(1)</sup>	

<i>Cathodic Protection</i>		<input type="checkbox"/> N/A
P/S (Surface):	P/S (Interface):	
Soil Resistivity:                      pH:	Date of Installation:	
Method of Protection:		
Did the Operator have knowledge of Corrosion before the Incident? <input type="checkbox"/> Yes <input type="checkbox"/> No		
How Discovered? (Close Interval Survey, Instrumented Pig, Annual Survey, Rectifier Readings, ECDA, etc):		

<i>Internal Pipe or Component Examination</i>		<input type="checkbox"/> N/A
Internal Corrosion: <input type="checkbox"/> Yes <input type="checkbox"/> No <sup>(1)</sup>	Injected Inhibitors: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Type of Inhibitors:	Testing: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Results (Coupon Test, Corrosion Resistance Probe):		
Description of Failure surface (MIC, Pitting, Wall Thinning, Chevrons, Fracture Mode, Point of Origin):		
Cleaning Pig Program: <input type="checkbox"/> Yes <input type="checkbox"/> No	Gas and/or Liquid Analysis: <input type="checkbox"/> Yes <input type="checkbox"/> No	

5 Attach copy of water analysis report

## Pipeline Failure Investigation Report

<i>Internal Pipe or Component Examination</i>		<input type="checkbox"/> N/A
Results of Gas and/or Liquid Analysis <sup>(6)</sup>		
Internal Inspection Survey: <input type="checkbox"/> Yes <input type="checkbox"/> No	Results <sup>(7)</sup>	
Did the Operator have knowledge of Corrosion before the Incident? <input type="checkbox"/> Yes <input type="checkbox"/> No		
How Discovered? (Instrumented Pig, Coupon Testing, ICDA, etc.):		

<i>Outside Force Damage</i>		<input type="checkbox"/> N/A
Responsible Party:	Telephone No.:	
Address:		
Work Being Performed:		
Equipment Involved: <sup>(1)</sup>	Called One Call System? <input type="checkbox"/> Yes <input type="checkbox"/> No	
One Call Name:	One Call Report # <sup>(8)</sup>	
Notice Date:	Time:	
Response Date:	Time:	
Details of Response:		
Was Location Marked According to Procedures? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Pipeline Marking Type: <sup>(1)</sup>	Location: <sup>(1)</sup>	
State Law Damage Prevention Program Followed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No State Law		
Notice Required: <input type="checkbox"/> Yes <input type="checkbox"/> No	Response Required: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Was Operator Member of State One Call? <input type="checkbox"/> Yes <input type="checkbox"/> No	Was Operator on Site? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Is OSHA Notification Required? <input type="checkbox"/> Yes <input type="checkbox"/> No		

6 Attach copy of gas and/or liquid analysis report

7 Attach copy of internal inspection survey report

8 Attach copy of one-call report

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<i>Natural Forces</i> <span style="float: right;"><input type="checkbox"/> N/A</span>
Description (Earthquake, Tornado, Flooding, Erosion):

<i>Failure Isolation</i> <span style="float: right;"><input type="checkbox"/> N/A</span>	
Squeeze Off/Stopple Location and Method: <span style="float: right;">(1)</span>	
Valve Closed - Upstream: Time:	I.D.: M.P.:
Valve Closed - Downstream: Time:	I.D.: M.P.:
Pipeline Shutdown Method: <input type="checkbox"/> Manual <input type="checkbox"/> Automatic <input type="checkbox"/> SCADA <input type="checkbox"/> Controller <input type="checkbox"/> ESD	
Failed Section Bypassed or Isolated:	
Performed By:	Valve Spacing:

<i>Odorization</i> <span style="float: right;"><input type="checkbox"/> N/A</span>	
Gas Odorized: <input type="checkbox"/> Yes <input type="checkbox"/> No	Concentration of Odorant (Post Incident at Failure Site):
Method of Determination: <input type="checkbox"/> Yes <input type="checkbox"/> No	% LEL: <input type="checkbox"/> Yes <input type="checkbox"/> No    % Gas In Air: <input type="checkbox"/> Yes <input type="checkbox"/> No
Was Odorizer Working Prior to the Incident? <input type="checkbox"/> Yes <input type="checkbox"/> No	Time Taken: <input type="checkbox"/> Yes <input type="checkbox"/> No
Odorant Manufacturer: Model:	Type of Odorizer (Wick, By-Pass):
Amount Injected:	Type of Odorant:
	Monitoring Interval (Weekly):
Odorization History (Leaks Complaints, Low Odorant Levels, Monitoring Locations, Distances from Failure Site):	



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<i>Weather Conditions</i> <span style="float: right;"><input type="checkbox"/> N/A</span>	
Temperature:	Wind (Direction & Speed):
Climate (Snow, Rain):	Humidity:
Was Incident preceded by a rapid weather change ? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Weather Conditions Prior to Incident (Cloud Cover, Ceiling Heights, Snow, Rain, Fog):	

<i>Gas Migration Survey</i> <span style="float: right;"><input type="checkbox"/> N/A</span>	
Bar Hole Test of Area: <input type="checkbox"/> Yes <input type="checkbox"/> No	Equipment Used:
Method of Survey (Foundations, Curbs, Manholes, Driveways, Mains, Services) <sup>(9)</sup> <span style="float: right;">(1)</span>	

<i>Environment Sensitivity Impact</i> <span style="float: right;"><input type="checkbox"/> N/A</span>	
Location (Nearest Rivers, Body of Water, Marshlands, Wildlife Refuge, City Water Supplies that could be or were affected by the medium loss): <span style="float: right;">(1)</span>	
OPA Contingency Plan Available? <input type="checkbox"/> Yes <input type="checkbox"/> No	Followed? <input type="checkbox"/> Yes <input type="checkbox"/> No

<i>Class Location/High Consequence Area</i> <span style="float: right;"><input type="checkbox"/> N/A</span>	
Class Location: 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> Determination: _____	HCA Area? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Determination: _____
Odorization Required? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

<i>Pressure Test History</i> <span style="float: right;"><input type="checkbox"/> N/A</span> <small>(Expand List as Necessary)</small>						
	Req'd <sup>(10)</sup> Assessment Deadline Date	Test Date	Test Medium	Pressure (psig)	Duration (hrs)	% SMYS
Installation	N/A					
Next						
Next						
Most Recent						
Describe any problems experienced during the pressure tests.						

<sup>9</sup> Plot on site description page

<sup>10</sup> As required of Pipeline Integrity Management regulations in 49CFR Parts 192 and 195

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<b>Internal Line Inspection/Other Assessment History</b> <span style="float: right;"><input type="checkbox"/> N/A</span>					
<i>(Expand List as Necessary)</i>					
	Req'd <sup>(10)</sup> Assessment Deadline Date	Assessment Date	Type of ILI Tool <sup>(11)</sup>	Other Assessment Method <sup>(12)</sup>	Indicated Anomaly If yes, describe below
Initial					<input type="checkbox"/> Yes <input type="checkbox"/> No
Next					<input type="checkbox"/> Yes <input type="checkbox"/> No
Next					<input type="checkbox"/> Yes <input type="checkbox"/> No
Most Recent					<input type="checkbox"/> Yes <input type="checkbox"/> No
Describe any previously indicated anomalies at the failed pipe, and any subsequent pipe inspections (anomaly digs) and remedial actions.					

<b>Pre-Failure Conditions and Actions</b> <span style="float: right;"><input type="checkbox"/> N/A</span>
Was there a known pre-failure condition requiring <sup>(10)</sup> the operator to schedule evaluation and remediation? <input type="checkbox"/> Yes (describe below or on attachment) <input type="checkbox"/> No
If there was such a known pre-failure condition, had the operator established and adhered to a required <sup>(10)</sup> evaluation and remediation schedule? Describe below or on attachment. <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Prior to the failure, had the operator performed the required <sup>(10)</sup> actions to address the threats that are now known to be related to the cause of this failure? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
List below or on an attachment such operator-identified threats, and operator actions taken prior to the accident.
Describe any previously indicated anomalies at the failed pipe, and any subsequent pipe inspections (anomaly digs) and remedial actions.

<b>Maps &amp; Records</b> <span style="float: right;"><input type="checkbox"/> N/A</span>
Are Maps and Records Current? <sup>(13)</sup> <input type="checkbox"/> Yes <input type="checkbox"/> No Comments:

<b>Leak Survey History</b> <span style="float: right;"><input type="checkbox"/> N/A</span>
Leak Survey History (Trend Analysis, Leak Plots):

<sup>11</sup> MFL, geometry, crack, etc.

<sup>12</sup> ECDA, ICDA, SCCDA, "other technology," etc.

<sup>13</sup> Obtain copies of maps and records

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<i>Pipeline Operation History</i> <span style="float: right;"><input type="checkbox"/> N/A</span>
Description (Repair or Leak Reports, Exposed Pipe Reports):
Did a Safety Related Condition Exist Prior to Failure? <input type="checkbox"/> Yes <input type="checkbox"/> No                Reported? <input type="checkbox"/> Yes <input type="checkbox"/> No
Unaccounted For Gas:
Over & Short/Line Balance (24 hr., Weekly, Monthly/Trend):

<i>Operator/Contractor Error</i> <span style="float: right;"><input type="checkbox"/> N/A</span>				
Name:	Job Function:			
Title:	Years of Experience:			
Training (Type of Training, Background):				
Was the person "Operator Qualified" as applicable to a precursor abnormal operating condition? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A				
Type of Error (Inadvertent Operation of a Valve):				
Procedures that are required:				
Actions that were taken:				
Pre-Job Meeting (Construction, Maintenance, Blow Down, Purging, Isolation):				
Prevention of Accidental Ignition (Tag & Lock Out, Hot Weld Permit):				
Procedures conducted for Accidental Ignition:				
Was a Company Inspector on the Job? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Was an Inspection conducted on this portion of the job? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Additional Actions (Contributing factors may include number of hours at work prior to failure or time of day work being conducted):				
Training Procedures:				
Operation Procedures:				
Controller Activities:				
Name	Title	Years Experience	Hours on Duty Prior to Failure	Shift
Alarm Parameters:				

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Operator/Contractor Error <input type="checkbox"/> N/A	
High/Low Pressure Shutdown:	
Flow Rate:	
Procedures for Clearing Alarms:	
Type of Alarm:	
Company Response Procedures for Abnormal Operations:	
Over/Short Line Balance Procedures:	
Frequency of Over/Short Line Balance:	
Additional Actions:	

Additional Actions Taken by the Operator <input type="checkbox"/> N/A	
<p>Make notes regarding the emergency and Failure Investigation Procedures (Pressure reduction, Reinforced Squeeze Off, Clean Up, Use of Evacuators, Line Purging, closing Additional Valves, Double Block and Bleed, Continue Operating downstream Pumps):</p>	

## ***Pipeline Failure Investigation Report***

<b><i>Photo Documentation <sup>(1)</sup></i></b>					
Overall Area from best possible view. Pictures from the four points of the compass. .Failed Component. Operator Actions. Damages in Area. Address Markings.					
Photo No.	Description	Roll No.	Photo No.	Description	Roll No.
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
15			15		
16			16		
17			17		
18			18		
19			19		
20			20		
21			21		
22			22		
23			23		
24			24		
25			25		
26			26		
27			27		
28			28		
29			29		
30			30		
Type of Camera:					
Film ASA:					
Video Counter Log (Attach Copy):					

## ***Pipeline Failure Investigation Report***

<b><i>Additional Information Sources</i></b>			
Agency	Name	Title	Phone Number
Police:			
Fire Dept.:			
State Fire Marshall:			
State Agency:			
NTSB:			
EPA:			
FBI:			
ATF:			
OSHA:			
Insurance Co.:			
FRA:			
MMS:			
Television:			
Newspaper:			
Other:			

## ***Pipeline Failure Investigation Report***

<b><i>Persons Interviewed</i></b>		
Name	Title	Phone Number

# Pipeline Failure Investigation Report

[illegible]



# Pipeline Failure Investigation Report

[illegible]

# Pipeline Failure Investigation Report

[illegible]

## ***Pipeline Failure Investigation Report***

<b><i>Site Description</i></b>
<p>Provide a sketch of the area including distances from roads, houses, stress inducing factors, pipe configurations, etc. Bar Hole Test Survey Plot should be outlined with concentrations at test points. Photos should be taken from all angles with each photo documented. Additional areas may be needed in any area of this guideline.</p>